



Engineering and Manufacturing



FACILITIES LIST
OF
ARTISAN'S
FABRICATION AND MACHINING
CAPABILITIES

February 22, 2011

QUALITY ASSURANCE

Artisan is proud to be the holder of five certificates of authorization issued by ASME and The National Board of Boiler and Pressure Vessels Inspectors. Listed below are the certificates held and their designations:

- N** - Class 1, 2, 3, & MC vessels Certificate #N-3441
Class 1, 2, & 3 piping systems
- NPT** – Class 1, 2, 3, & MC fabrication Cert. #N-3442
and material organization supplying material
- U**-Pressure Vessel - Certificate #827
- U2**-Pressure Vessel Div. 2 - Certificate #18,157
- R**-Repair – Certificate #443

Our nuclear quality control program is ASME **NQA-1 Compliant**.

We can design, manufacture and certify to PED requirements.

Artisan also holds China Special Manufacturing License #TS2200819 – 2013, for Pressure vessels A2

Quality Assurance is part of our daily activity at Artisan Industries. Q.A. manuals have been written and implemented to cover the broad range of products fabricated and machined in our facility. These manuals address quality requirements required by ASME Boiler and Pressure Vessel codes, as well as Measurement & Calibration Specification ISO-10012.

Artisan has on staff a Level III Inspector certified by the American Society of Non-destructive Testing for x-ray, liquid penetrant and magnetic particle inspection. We also have six American Welding Society Certified Welding Inspectors on staff. This allows us to perform in-house visual, x-ray, liquid penetrant and magnetic particle inspections as needed to assure quality and maintain schedules. Hydrostatic testing of fabrications is routinely performed to 10,000 psi.

Portable Coordinate Measuring Machine

Romer Model 5030

Wi-Fi With Power Inspect 4.025 Software
Arm Reach is a 10 ft Sphere

FABRICATION EQUIPMENT

WELDING EQUIPMENT

(4) THERMADYNE POWERMASTER 500P

Heavy Duty Inverter Design

Multi-Process: GTAW, GMAW, FCAW, SMAW, CAW; Programmable and Pulse
GMAW & FCAW

WELDING SYSTEMS

AIRLINE AUTOMATED SEAM WELDING SYSTEM

Jetline Series 9500 Systems Controller

Jetline Automatic Arc Length Control

Jetline Digital Cold Wire Feeder

O.T.C. 300 Amp Inverter Type Power Supply

Weldcraft 310 Amp Water Cooled G.T.A.W. Torch

LIBURDI DIMETRICS ORBITAL TUBE WELDER

Model 150PTW Power Source with Model 5004 Orbital Weld Head

1/2" TO 4" Diameter Tube Size Capacity

LINCOLN SUBMERGED ARC WELDING SYSTEM

600 Amp Mounted to Aronson 12' x 12' Manipulator

Cycolmatic Seam Tracker

(2) CYPRESS CIRCULAR SUBMERGED ARC NOZZLE WELDER

Model #CWTA with Lincoln 600 Amp D.C. Power Supply

BUG-O TRACK SYSTEM

300 Amp GMAW x 20 Feet Long

C. K. Worldwide GTAW wire feeder

Model WF-1

G.M.A.W. / F.C.A.W. WELDERS

(1) **MILLER Maxtron** , 450 Amp

(1) **HOBART Ultra Flex**, 350 Amp

G.T.A.W. / S.M.A.W. WELDERS

- (2) **MILLER SYNCROWAVE**, 300 Amp
- (8) **MILLER SYNCROWAVE**, 250 Amp AC/DC
- (1) **THERMALARC Prowave** 300 Amp AC/DC
- (1) **THERMALARC Prowave** 250 Amp AC/DC
- (4) **LINCOLN FLEETWELD**, 300 Amp AC/DC

Local Post Weld Heat Treatment Equipment

HOTFOIL-EHS fully automatic 73KVA system

ASME Code compliant with chart recorder, thermocouples, and a broad selection of ceramic mat heaters

WELDING POSITIONERS

- (1) **RANSOME POSITIONER** 50,000 lb capacity
- (1) **RANSOME POSITIONER** 40,000 LB. capacity
- (1) **RANSOME POSITIONER**, 20,000 LB. capacity
- (2) **RANSOME POSITIONER**, 10,000 lb. capacity
- (1) **RANSOME POSITIONER**, 6,000 lb. capacity
- (1) **PANJURIS POSITIONER**, 3,000 lb. capacity
- (2) **PANJURIS POSITIONER**, 800 lb. capacity
- (1) **STAHL POSITIONER**, 100 lb. capacity
- (1) **REDIARC POSITIONER**, 100 lb. capacity

PLASMA CUTTING MACHINES

(1) **THERMAL DYNAMICS**

Cut Master 51
Cuts up to 1/2" thick

(1) **THERMAL DYNAMICS**

Merlin PAK 15XC
Plasma cutting to 2" thick
Plasma gouging capability

METAL FINISHING

GRITBLAST ROOM

13' x 14' x 9' high

PAINT SPRAY BOOTH

8' x 10' x 8' high

(2) **HAMMOND BACK STAND BELT GRINDERS**

(1) **WALKER TURNER HORIZONTAL BELT GRINDER**

PIPE THREADING

(1) **RIGID PIPE THREADER**

Model 1822

(1) **OSTER PIPE THREADER**

Model 432

PORTABLE FLANGE RE-FACING & PIPE BEVELING

(1) **Tri-Tool Bevelmaster 212B**

Bevels pipe sizes 4" thru 12" OD
Cuts flange faces 3-1/2" thru 13" w/125 or 250 Ra finish

BRAKE

KAMATSU HYDRAULIC

Model PHS 110 x 310

Maximum Capacity	121 Tons
Table Length	122"
Open Height	14.4"
Stroke	7.3"

SHEAR

CINCINNATI

Maximum Capacity 1/4" x 120" Steel

SAWS

MARVEL Band Saw, 20" Throat

DOALL High Speed Band Saw, 36" Throat

MARVEL Band Saw, 18" Throat

ROCKWELL 10" Diameter Blade Abrasive Cutoff Saw

PUNCH

W. A. WHITNEY

Manual Duplicator Punch Press

50 Ton-Model 652-50, 30" Throat

Capacities: 1.25" diameter in 1/2" steel
5.00" diameter. in 3/16" steel

SCOTCHMAN IRON WORKER

Model 9075

90 Ton Capacity

Punch, Shear and Notch

MATERIAL HANDLING

(4) Fork Lift Trucks
30,000 Pound Maximum Capacity

Leased Local Delivery Truck
New In 2005
16-Foot Flat Bed
14,000 Pound Load Capacity

Fabrication & Assembly Cranes
Capacity to 56,000 Pounds

High Bay capacities:

Overhead door opening 11 Ft. 10 In.
2,000 Pound Capacity with Hook Height 35 Ft. 4-1/2 In.
Roof Opens

Overhead door opening 14 Ft. 8 In.
10,000 Pound Hook Height 31 Ft. 3 In.

Overhead doors opening 20 Ft. High
One bridge with two 14 Ton Hooks Height 25 Ft.
One bridge with one 5 Ton Hook Height 25 Ft.

MACHINE SHOP EQUIPMENT

HORIZONTAL BORING MILLS

LUCAS Table Type Horizontal Boring Mill

Spindle Stroke 60-1/2"
Vertical travel 80-1/2"
Cross Travel 118"
Saddle Travel 56"
Table Size 122" x 56"
Table Capacity 30,000 lbs.

HNK HB-110 CNC Horizontal Boring Mill

Cross Travel (X-Axis) 78"
Column Travel (Z-Axis) 51"
Table Size 55" x 63"
Table Capacity 15,000 lbs.

VERTICAL BORING MILLS

GIDDINGS & LEWIS Vertical Boring Mill

96" Diameter Table, 104" Swing
101" Under Rail
Table Capacity 55,000 lbs.

BULLARD Vertical Boring Mill

60" Diameter Table
51" under rail

VERTICAL TURRET LATHES

BULLARD Vertical Turret Lathe

Boring and Turret Heads, Digital Readouts
68" Diameter table,
48" under rail
70" Swing

WEBSTER BENNETT Vertical Turret Lathe

Single Head with Grinding Attachments
Digital Readouts
60" Diameter Table
32" under rail

WIRE E.D.M

Mitsubishi FX20

Maximum Work Piece Size 41.3" x 31.5" x 14.5"

CNC MACHINING CENTERS**HITACHI SEIKI MODEL VA85 CNC** Vertical Machining Center

Table Travel (X-axis)	120"
Saddle Travel (Y=axis)	33.5"
Vertical (Z=axis)	32"
30 Tool	
Table Size:	81" x 33.5"

Maxtec / Vision Wide 2020 CNC Vertical Double Column Machining Center

Table Travel (X-axis)	78.7"
Travel (Y=axis)	78.7"
Headstock Travel (Z=axis)	31.5"
32 Tool ATC	
Table capacity	28,880 Lbs.

BRIDGEPORT VMC 1000/22 Heavy Duty Bed Type Vertical Machining Center

Table Travel (X-Axis)	40.2"
Saddle Travel (Y-Axis)	20"
Head Travel (Z-Axis)	19.7"
Table Size	45.3" x 19.3"
22 Station Tool Changer	

TRAK DPM FHM7 Bed Mill - Southwestern Industries

Table Size	76" x 14"
Travel (X, Y, Z axis)	60" x 23" x 20.5"
Spindle Speed Range with E Head Option	200-5000 rpm
Table Capacity	2200 lbs.

TRAK DPM SX3 Bed Mill - Southwestern Industries

Table Size	50" x 10"
Travel (X, Y, Z axis)	30" x 17" x 23.5"
Spindle Speed Range with E Head Option	40-600, 300-5000
Table Capacity	1320 lbs.

Hass Programmable Rotary Table - 18" Diameter

LATHES

HARRISON 1550/80 XT

CNC Turning Center

Swing	21"
Between Centers	80"
Spindle Bore	4"
Gap Bed	32.5" swing 8.5" in front of face plate

HITACHI SEIKI Model Hitec-Turn 25S

CNC Turning Center

Chuck Size	10"
Maximum Swing	20"
Shaft Length	24"
Bar Capacity (with standard chuck)	2.5"

DEAN SMITH & GRACE - Monarch Type 30

Swing Center Lathe

Gap Lathe	32" Swing 144" between Centers
With Gap	39" Swing
Digital Readout	

CINCINNATI ENGINE LATHE

Swing	26"
Between Centers	120"
Digital Readout	

CLAUSING COLCHESTER LATHE

Swing	15"
Between Centers	50"
Digital Readout	